

RUMANOVА, I.M.

Symmetry of suspended projections of the electron density in crystals
of lower systems. Kristallografiia 5 no.2:180-193 Mr-Ap '60.
(MIRA 13:9)

1. Institut kristallografi AN SSSR.
(Electrons) (Crystallography)

24.7100

77104
SOV/70-4-6-5/31

AUTHORS:

Rumanova, I. M., Nikolayeva, T. V.

TITLE:

Crystal Structure of Allanite (Orthite)

PERIODICAL:

Kristallografiya, 1959, Vol 4, Nr 6, pp 829-835 (USSR)

ABSTRACT:

The allanite crystals of $(\text{Ca}, \text{Ce}, \text{La}, \text{Na}, \text{Mn}^{++})_2(\text{Al}, \text{Fe}, \text{Mg})_3\text{Si}_3\text{O}_{12}(\text{OH}, \text{O})$, composition from the Vishnevogorsk deposit, found and presented by Ye. I. Semenov and assayed by V. A. Khivostova, proved to be metamict. However, the X-ray diffraction pattern of one crystal could satisfactorily be interpreted, although the photographs were diffuse, too. The rotating-crystal photographs around a and b axes, moving-film diffraction photographs of the zero, first and second levels normal to b axis, of the zero level normal to a axis, and the generalized projections of the electron density distribution furnished adequate data for computation of unit cell dimensions, interplanar and interatomic spacings and the atomic coordinates. According to these data .

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allanite repeats the structure motif of epidote. However, of the Ca atoms situated in two unidentical positions only those in one position can be replaced by Ce (or La, Pr, Nd, Sm, Na, Mn⁺⁺) in allanite; substitution of Fe⁺⁺⁺ by Fe⁺⁺ accompanies the replacement of Ca by Ce. The well ordered replacement of Ca by Ce whose charge is higher seems to be responsible for absence of cleavages in allanite, while epidote exhibits perfect cleavages in (001) and an imperfect one in (100) directions. The unit cell parameters of monoclinic allanite are: $a = 8.95 \text{ \AA}$, $b = 5.75 \text{ \AA}$, $c = 10.22 \text{ \AA}$, $\beta = 115^\circ$, space group $P2_1/m$,

density 3.88. Atomic coordinates and interatomic spacings are compiled in Tables 2 and 3 (where Roman numerals denote oxygen atoms in various positions; a and σ are identical atoms on the opposite sides of a mirror; primes denote atoms bound to basal atoms by a center of symmetry). As a whole, the allanite structure is formed of two different types of octahedrally coordinated Al chains along the b axis with oxygen atoms at octahedron vertices. The Al chains of the

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Coordinates of basal atoms in allanite Table 2

Atoms	$\frac{x}{a}$	y/a	z/a	Atoms	$\frac{x}{a}$	y/a	z/a	
Al _I	2	0	0	OII	4	0.307	0	0.363
Al _{II}	2	0	0.5	OIII	4	0.801	0	0.342
Fe ⁺⁺ (Fe ⁺⁺)	2	0.300	0.25	OIV	2	0.052	0.25	0.143
Ca	2	0.760	0.75	OV	2	0.052	0.75	0.143
Ce	2	0.601	0.75	OVI	2	0.071	0.75	0.413
Sii	2	0.338	0.75	OVII	2	0.510	0.75	0.181
Siu	2	0.695	0.25	OVIII	2	0.542	0.25	0.323
Siii	2	0.182	0.75	OIX	2	0.613	0.25	0.098
OI	4	0.230	0	OII	2	0.071	0.25	0.413

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Interatomic distances in allanite

Table 3

Tetrahedrally coordinated	Al _I -octahedrally coordinated	Si _{III} -Tetrahedrally coordinated	Fe-octahedrally coordinated
Si _I —I _a , I ₆ 1.71 Å	Al _I —I _a , V _a 1.95 Å	Si _{III} —II _a , II ₆ 1.76 Å	Fe—I _a , I ₆ 2.25 Å
Si _I —VII 1.58 Å	Al _I —IV, IV' { 1.96 Å	Si _{III} —V 1.70 Å	Fe—II _a , II ₆ 2.05 Å
Si _I —IX' 1.68 Å	Al _I —V, V' } 1.96 Å	Si _{III} —VI 1.64 Å	Fe—IV 2.02 Å
VII—I _a , I ₆ 2.73 Å	I _a —IV, V 2.72 Å	V—II _a , II ₆ 2.84 Å	Fe—VIII 1.99 Å
IX'—I _a , I ₆ 2.72 Å	I _a —IV', V' 2.80 Å	VI—II _a , II ₆ 2.78 Å	IV—I _a , I ₆ 2.72 Å
VII—IX' 2.58 Å	IV'—V 2.67 Å	V—VI 2.70 Å	IV—II _a , II ₆ 2.83 Å
I _a —I ₆ 2.87 Å	IV—V 2.87 Å	II _a —II ₆ 2.87 Å	VIII—I _a , I ₆ 3.41 Å
Tetrahedrally coordinated	Octahedrally coordinated		VIII—II _a , II ₆ 2.72 Å
Si _{II} :	Al _{II} -coordinated		I _a —II _a } 3.16 Å
Si _{II} —III _a , III ₆ 1.69 Å	Al _{II} —III _a , III ₆ 1.83 Å		I ₆ —II ₆ }
Si _{II} —VIII 1.62 Å	Al _{II} —VI, VI' } 1.93 Å		I _a —I ₆ } 2.87 Å
Si _{II} —IX 1.68 Å	Al _{II} —OH, OH' } 1.93 Å		II _a —II ₆ }
VIII—III _a , III ₆ 2.67 Å	III _a —VI, OH 2.62 Å	Polyhedrally coordinated	Ce—Polyhedrally coordinated
IX—III _a , III ₆ 2.76 Å	III _a —VI', OH' 2.69 Å	Ca—III _a , III ₆ 2.31 Å	Ce—VII 2.29 Å
VIII—IX 2.64 Å	VI—OH' 2.59 Å	Ca—VII 2.36 Å	Ce—II _a , II ₆ 2.42 Å
III _a —III ₆ 2.87 Å	VI—OH 2.87 Å	Ca—V _a , V ₆ 2.40 Å	Ce—OH' 2.70 Å
		Ca—V 2.66 Å	Ce—III _a , III ₆ 2.71 Å
		Ca—VI 2.94 Å	Ce—II _a , II ₆ 2.82 Å
		Ca—IX 3.11 Å	Ce—VIII 3.03 Å

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Crystal Structure of Allanite (Orthite)

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first type are linked by octahedrally coordinated Fe and the second type by polyhedrally coordinated Ce. Single tetrahedra of SiO_4 , double tetrahedra of Si_2O_7 , and polyhedrally coordinated Ca link different types of Al chains. Academician N. V. Belov is acknowledged for his valuable remarks. There are 3 figures; 3 tables; and 9 references, 4 Soviet, 2 German, 1 Japanese, 1 Danish, 1 U.K. The latter is: A. J. C. Wilson, Nature, 150, 152, 1942.

ASSOCIATION: Crystallographical Institute of the Academy of Sciences of the USSR and Rostov-on-Don State University (Institut kristallografii AN SSSR i Rostovskiy-na-Donu gosudarstvenny universitet)

SUBMITTED: September 12, 1959

Card 5/5

RUMANOVА, I.M.; ZHAMENSKAYA, M.N.

Crystal structure of anapaite. Kristallografiia 5 no.5:681-
688 S-0'60.
(MRIA 13:10)

1. Institut kristallografiи AN SSSR.
(Anapaite)

BITKINA, L.N.; FEDOSYUK, R.Ya.; LOBKOV, M.A.; MIKERINA, N.Ya.; GLUKHOVTSEVA,
Z.N.; RUMANOVA, R.G.; VIL'SHANSKAYA, F.L.; MATVEYEVA, V.N.;
YAMPOL'SKAYA, V.A.; VARSHAVSKIY, E.I.

Outbreak of salmonellosis. Zhur. mikrobiol. epid. i immun. 31 no.2:
99-100 D '60.

(SALMONELLA)

137-58-5-9575

RUMANOVSKIY, A. KH.

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 106 (USSR)

AUTHORS: Reyfe, E.D., Rumanovskiy, A.Kh.

TITLE: Rubber Forming From Thin Sheetng (Formovka rezinoy izdeliy
iz tonkolistovogo materiala)

PERIODICAL: Radiotekhn. proiz-vo, 1957, Nr 8, pp 41-43

ABSTRACT: A description is presented of the design of two dies for rubber forming of bayonet catches and threads on cylinders and caps of thin nonferrous sheeting of up to 0.8 mm gage. M. Ts.

1. Dies--Design 2. Rubber--Applications

Card 1/1

ZEBBZEEZEEZ

R. A. STORTER, C.

2919

622.273.2.043

Rumanstorfer T. Tight Packing, and Stowage under Pressure.
"Poduszanie, szczególnie pod ciśnieniem". Przegląd Górnictwa. No.

10, 1953; pp. 338-342, 2 figs.

Stowage under pressure is a special case of tight packing, since the sand comes to fill the gob not merely to the level of the stowage pipeline outlet, but even above this level, including crevices in the roof. Detailed technical specification for this method of stowage and description of the scope of its use.

RUMANSTORFER, T., mgr inz.; SZAFTER, J., mgr inz.

Man in strip mining. Przegl techn no. 45:8 11 N '62.

1. Glowny Instytut Gornictwa, Katowice.

Fuel Abst.
Vol. 15 No. 4
Apr. 1954
Natural Solid Fuels:
Winning

2684. TIGHT STOWING AND PRESSURE STOWING. Rumanstorfer, T. (Przegl. gorn. (Min. Rev.), Oct. 1953, vol. 9, 338-342). The two types of stowing and the conditions which call for them are defined. The compressibility of stowing material, the techniques of preparatory work and of actual stowing, the conduct of surveys and training of teams for pressure stowing, are discussed. (L).

(1) Fuel

54
90

RUMANSTORFER, Tadeusz, mgr inz.

Development of basic principles of industrial safety and hygiene
in the Polish mining industry. Przegl gorn 20 no.9:441-445 S '64.

Rumantsev, O.

550. PETROGRAPHY, SPORE, AND POLLEN ASSOCIATIONS OF COALS OF
TRANSBAIKALIA. Rumantsev, O., (Izv. Akad. Nauk SSSR, Ser. geol. (Bull.
Akad. Nauk U.S.S.R.-Ser. geol.), 1953, (5), 133).

RUMANTSEV, V.V. (Moskva)

Stability of uniform rotations of mechanical systems. Izv.AN SSSR.
Otd.tekh.nauk.Mekh.i mashinostr. no.6:113-121 N-D '62. (MIRA 15:12)
(Rotating bodies)

RUMARCHUK, Larisa

Not in form but in spirit; a sketch. Sov. profsoiuzy 20 no.3:
32-33 F '64. (MIRA 17:3)

1. Neftepererabatyvayushchiy zavod, Batumi.

SOKOL'SKIY, D.V., akademik: RUMAROVA, R.Z.

Hydrogenation of cottonseed oil by bound hydrogen. Dokl.
AN SSSR 111 no.3:609-612 N '56. (MLRA 10:2)

1. Akademiya nauk KazSSR (for Sokol'skiy) 2. Institut khimicheskikh
nauk Akademii nauk KazSSR.
(Cottonseed oil) (Hydrogenation)

PUCHALKA, T.; MARLINEK, J.; RUMATOWSKI, K.

Theoretical basis of the optimum control of Ward-Leonard
electric winders. Archiw elektrotech 12 no. 4: 647-667
'63.

1. Politechnika, Poznan.

COUNTRY	: USSR
CATEGORY	: Microbiology. Technical Microbiology.
ABD. JOUR.	: KMBiol., No. 3 1959, No. 10095
AUTHOR	: Novoselova, I. V., Rumba, A. A.
INST.	: The All-Union Scientific Research Institute of the*
TITLE	: The Use of Sodium Pentachlorphenolate as an Antiseptic in the Production of Citric Acid From Molasses
ORIG. PUB.	: Tr. Vses. n.-i. in-ta Konditersk. prom-sti, 1958, No 12, 57-61
ABSTRACT	: * Confectionery Industry. Pentachlorphenolate cannot be used for the fermentation of molasses by <i>Aspergillus niger</i> , because it is toxic for the fungus. However, 0.5% pentachlorphenolate can be utilized for the disinfection of production lines in the production of citric acid instead of formalin.
Card:	1/1

USSR/Microbiology. Technical Microbiology

F

Abs Jour : Ref Zhur-Biol., No 13, 1958, 57569

Author : Novoselova L. V., Shilova A. V., Rumba A. A.
Inst : All-Union Institute of the Confectionary
Industry

Title : New Technology of the Preparation of Seeding
Material in the Production of Citric Acid

Orig Pub : Tr. Vses. n-i in-ta konditer. prom-sti, 1955,
vyp. 11, 136-139

Abstract : No abstract

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28

BASOVA, L.V., starshiy nauchnyy sotrudnik; BLINOV, V.A., kand.tekhn.nauk,
starshiy nauchnyy sotrudnik; SIMANOVSKAYA, Ye.L.; PODSHIBYAKINA, N.D.;
RUMBA, A.Ya.

Applying the emulsion method for wool dyeing. Tekst.prom. 23 no.11:
83-84 N 63. (MIRA 17:1)

1. Nauchno-issledovatel'skiy institut organiceskikh poluproduktov i
krasiteley (for Basova, Blinov). 2. Rukovoditel' gruppy Informatsionno-
tekhnicheskogo byuro Nauchno-issledovatel'skogo instituta organices-
kikh poluproduktov i krasiteley (for Simanovskaya). 3. Nachal'nik la-
boratori. Latviyskogo kompleksnogo nauchno-issledovatel'skogo instituta
legkoy promyshlennosti (for Podshibyakina). 4. Master krasil'nogo tse-
kha fabriki "Rigas Tekstils" (for Rumba).

31194

S/079/61/031/012/008/011
D258/D301

5 3700

AUTHORS: Andrianov, K. A., and Rumba, G. Ya.

TITLE: The hydrolysis of cyclic polymethyl silazanes

PERIODICAL: Zhurnal obshchey khimii, v. 31, no. 12, 1961, 4038-
4042

TEXT: The authors investigated the hydrolysis of octamethyl cyclo-tetrasilazane (A) and hexamethyl cyclotrisilazane (B) in the presence of acids, alkalis and NH_4^+ - salts, in homogeneous and heterogeneous media. Specifically, a mixture consisting of one of the silazanes (3.65 gr), a solvent (45 ml), and water (5 ml) was boiled to reflux for up to 48 hours. The evolved NH_3 was trapped in water and titrated in situ every 30 mins. The tabulated results can be summarized as follows: Compound A (in toluene) is wholly hydrolyzed after 48 hours in the presence of KOH (0.5% and 10%). In the presence of HCl (0.5 N), H_2SO_4 (0.1 N and 0.5 N), and NH_4HSO_4 , the

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S/079/61/031/012/008/011
D258/D301

The hydrolysis of cyclic ...

hydrolysis is completed after 38, 42, 46 and 15 hours respectively. In acetone, A was completely hydrolyzed in the presence of H_2SO_4 (0.01 N) after 2 hours; the figures for pure water are 100% after 2.5 and 5 hours (for various amounts of water) and with KOH - 10% after 48 hours. Similar results were obtained with B. When using diethyl ether as a solvent, the results were lower, due to the lower boiling temperatures. The reactions in alcoholic media showed that both compounds were more easily attacked by alcohols, than by water. Thus, A was completely hydrolyzed (or alcoholized) after 2 hours in absolute ethanol, after 4 hours in 96% ethanol and after 40 hours in 0.1 N KOH in absolute ethanol. Similar results were obtained with methanol and iso-butyl alcohol. On the whole, the rate of alcoholysis was lowered with the increasing length of the alcoholic radical. The rate of hydrolysis of B is higher than that of A; this result is in agreement with the findings of N. N. Sokolov (Ref. 24: ZhOKh., 28, 3328, (1958)) on cyclic siloxanes, namely, that 6-membered rings are more easily opened than 8-membered ones. The authors conclude that the hydrolysis is initiated by a H^+ ion.

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The hydrolysis of cyclic ...

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S/079/61/031/012/008/011
D258/D301

and continues by the alternating additions of water and H⁺. First, H⁺ is added to one of the N atoms in the ring, forming a Si-(NH₂)⁺⁻-Si group; next the N⁺⁻-Si bond is hydrolyzed and the ring opens, with a NH₂ group on one end of the chain and a silanol group on the other; the third step consists in the addition of H⁺ to this NH₂ group which is converted into NH₃⁺; another molecule of water breaks the N⁺⁻-Si bond, giving rise to NH₃ and a silane diol. The reaction then continues to the ultimate breakdown of the molecule. Attempts to hydrolyze both compounds by exposing them to moistened air failed because of their high volatility. Therefore, these substances are unsuitable for the hydrophobization of paper and building materials. There are 9 figures and 24 references: 4 Soviet-bloc and 20 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: S. H. Langer, S. Connell, J. Wender, J. Org. Ch., 23, 50 (1958); E. Larsson, L. Bjellrup, J. Am. Chem. Soc., 75, 995 (1953); M. V. George, D. Wittenberg, H. Gilman, J. Am. Chem. Soc., 81, 361 (1959); D. Witten-

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31194

S/079/61/031/012/008/011

D258/D301

The hydrolysis of cyclic ...

berg, M. G. George, T. C. Wu, D. H. Miles, H. Gilman, J. Am. Chem. Soc., 80, 4532 (1958). X

SUBMITTED: January 2, 1961

Card 4/4

ANDRIANOV, K.A.; RUMBA, G.Ya.

Rearrangements of hexamethyl- and octamethylcyclosilazanes.

Dokl.AN SSSR 145 no.5:1049-1051 '62.

(MIRA 15:8)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
2. Chlen-korrespondent AN SSSR (for Andrianov).

(Silazanes) (Rearrangements (Chemistry))

ANDRIANOV, K.A.; RUMBA, G.Ya.

Catalytic polymerization of hexamethylcyclotrisilazane and
octamethylcyclotetrasilazane. Vysokom. soed. 4 no.7:1060-1063
Jl '62. (MIRA 15:7)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
(Silicon organic compounds)
(Polymerization)

ANDRIANOV, K.A.; RUMBA, G.Ya.

Reamination of polymethylcyclosilazanes with aniline. Zhur.ob.khim.
(MIRA 15:6)
32 no.6:1993-1997 Je '62.
(Silazanes) (Aniline)

S/062/65/000/002/012/020
B144/8106

AUTHORS: Andrianov, K. A., and Rumba, G. Ya.

TITLE: Hydrolytic stability of phenyl-methyl cyclotrisilasane and α,ω -bis(trimethyl-silyl-amino)-dimethyl silanes

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 12, 1963, 220 - 224

TEXT: The effect of phenyl groups on the hydrolytic stability of polymethyl cyclotrisilasanes was studied in the following compounds synthesized for the first time by aminolysis: triphenyl-trimethyl cyclotrisilasane (I), phenyl-pentamethyl cyclotrisilasane (II), and diphenyl-tetramethyl cyclotrisilasane (III), and also in tri- α -phenyl-hexamethyl cyclotrisilasane (IV). The hydrolyzing agents were water, 0.5 N H_2SO_4 , and 0.5 N KOH. Toluene, 96% ethanol and acetone were used as solvents. IV hydrolyzed quickly in ethanol-water and acetone-water mixtures, but was stable in toluene-water- H_2SO_4 . Hydrolysis was noticeably retarded in ethanol-KOH. Using water mixed with toluene, I was completely hydrolyzed in 22 hrs as compared to 36 hrs for hexamethyl cyclotrisilasane. Adding H_2SO_4 addition accelerated.

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4/06/103/000/002/012/C2C
S144/S166

Hydrolytic stability of...

the hydrolysis of I in toluene, but not in ethanol. This may be explained by the lower solubility of I in the presence of H_2SO_4 . Adding KOH to I had a strong retarding effect in toluene, but proved ineffective in ethanol. The highest hydrolytic stability was observed in α,ω -bis-(trimethyl-silyl-amino)-dimethyl silanane. I and IV were more readily hydrolyzed than hexamethyl cyclotrisiloxanes and octamethyl cyclotetrasiloxane. Thus, the expected stabilizing effect of phenyl groups on the hydrolysis of silanes could not be verified in the compounds tested. This holds for both C_6H_5-Si bonds and C_6H_5-N bonds. There are 4 figures. and 1 table.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR
(Institute of Elemental Organic Compounds of the Academy of Sciences USSR)

SUBMITTED: May 16, 1962

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S/062/62/000/007/011/013
B117/B180

AUTHORS: Andrianov, K. A., and Rumba, G. Ya.

TITLE: Rearrangements of dimethyl cyclosilasanes and synthesis of tricyclotridecamethyl heptasilasane

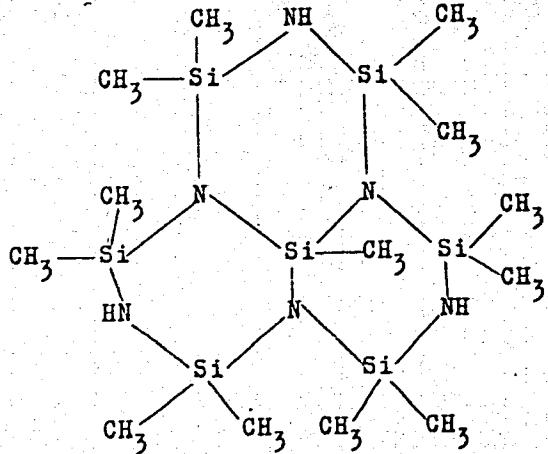
PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 7, 1962, 1313

TEXT: A new rearrangement has been found in dimethyl cyclosilasanes, which changes the silicon - nitrogen skeleton of the molecules. Tricyclotridecamethyl heptasilasane was synthesized by this reaction at 160-260°C by heating octamethyl cyclotetrasilasane or hexamethyl cyclotrisilasane in the presence of catalytic amounts of caustic alkali. The material has molecular weight 482 - 488; melting point 165 - 167°C, refractive indices of $n_g = 1.551$, $n_p = 1.535$ extinction angle of $\sim 90^\circ$, and the structure:

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S/062/62/000/007/011/013
B117/B180

Rearrangements of dimethyl...



ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk
SSSR (Institute of Elemental Organic Compounds of the Academy
of Sciences USSR)

SUBMITTED: May 16, 1962
Card 2/2

ANDRIANOV, K.A.; RUMBA, G.Ya.

Rearrangements of dimethylcyclosilazanes and synthesis of
tricyclotridecamethylheptasilazane. Izv.AN SSSR.Otd.khim.nauk
no.7:1313 J1 '62. (MIRA 15:7)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
(Silazanes) (Rearrangements (Chemistry))

HOL/6

S/020/62/145/005/010/020
B106/B144AUTHORS: Andrianov, K. A., Corresponding Member AS USSR, and Rumba,
G. Ya.

TITLE: Rearrangement of hexamethyl and octamethyl cyclosilazanes

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 145, no. 5, 1962, 1049-1051

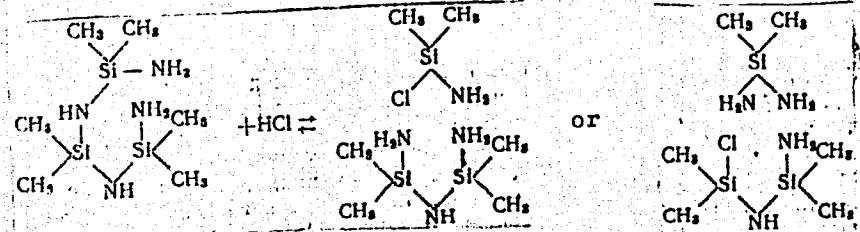
TEXT: It has been newly discovered that dimethyl cyclosilazanes may undergo rearrangement of the silicon-nitrogen structure. Ring extension occurs through action of trimethyl chlorosilane and ammonia on hexamethyl cyclo-trisilazane (I) at 20 - 40°C. 36.5% octamethyl cyclotetrasilazane (II) forms 18.9% high-boiling products in addition to the normal reaction products, e. g. octamethyl trisilazane, and 12.3% of a polymer (molecular weight about 2000) are formed. About 3% of II is formed by 48 hrs heating of I together with ammonium chloride to 250°C. The rearrangement is explained as follows: the action of ammonia on trimethyl chlorosilane, or the thermal dissociation of NH₄Cl, produce hydrogen chloride which splits the ring of I in some place. Thereby the chlorine is added to the silicon.

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S/020/62/145/005/010/020
B106/B144

Rearrangement of hexamethyl ...

The ammonia also present reacts with this Si-Cl bond to give an amine group.
HCl is again set free and reacts as follows:



These intermediates may recombine to I or II. Small amounts of II are also formed by action of small amounts of triethyl-methyl ammonium iodide on I at 300°C, and by action of catalytic amounts of KOH on I at 160°C. On the other hand, ring contraction occurs when II is heated to 280°C with catalytic amounts of NH₄Cl, yielding small quantities of I. Reamination and ring contraction occur simultaneously when aniline acts on II at 250-300°C, and about 20% tri-N-phenyl-hexamethyl cyclotrisilazane is formed. There is 1 table. The two English-language references are: S. D. Brewer, Ch. P. Card 2/3

Rearrangement of hexamethyl ...

8/020/62/145/005/010/020
B106/B144

Haber, J.; Am. Chem. Soc., 70, 3868 (1948); E. Larsson, B. Smith, Acta chem. scand., 3, 487 (1949).

ASSOCIATION: Institut elementoorganicheskikh soyedinenii Akademii nauk SSSR (Institute of Elemental Organic Compounds of the Academy of Sciences USSR)

SUBMITTED: May 17, 1962

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38677
S/079/62/032/006/005/006
D202/D304

5-2700

AUTHORS: Andrianov, K. A. and Rumba, G. Ya.

TITLE: The re-amination reactions of polymethyl-cyclosilazanes with aniline

PERIODICAL: Zhurnal obshchey khimii, v. 32, no. 6, 1962, 1993-1997

TEXT: The authors, investigating the possibility of substituting the NH group by that of $\text{C}_6\text{H}_5\text{N}$ in dimethyl-cyclosilazanes, studied the reactions of hexamethylcyclotrisilazane and octamethylcyclotetrasilazane with aniline. It was found that the re-amination with elimination of NH_3 takes place without a catalyst. From the reaction products of octamethylcyclotetrasilazane with aniline, taken in 1:1, 1:3 and 1:4 molar ratios, a crystalline tri-N-phenyl-hexamethylcyclotrisilazane (m.p. 247 - 248°C) was separated. The same compound was obtained from hexamethylcyclotrisilazane and aniline taken in a molar ratio of 1:3. The authors checked its com-

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S/079/62/032/006/005/006
D202/D304

The re-amination reactions ...

position by direct synthesis from dimethyldichlorosilane and aniline. These results prove that in the reaction of octamethylcyclo-tetrasilazane with aniline not only is NH substituted by $\text{C}_6\text{H}_5\text{N}$, but also the 8-membered ring is rearranged into a 6-membered one. The authors conclude that this rearrangement proceeds through the formation of dimethyl-bis-(N-phenylamino)-silane which is then condensed into a 6-membered ring. There are 1 table and 1 figure. ✓

SUBMITTED: April 4, 1961

Card 2/2

ANDRIANOV, K.A.; RUMBA, G.Ya.

Hydrolytic stability of phenylmethylcyclosilazenes and
α,α'-bis-(trimethylsilylaminomethyl) dimethylsilazanes. Izv. AN SSSR.
Otd. khim. nauk no. 2:290-294 F '63. (MIRA 16:4)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
(Silazanes)

L 38300-65 EWT(l)/EWT(m)/EPF(c)/EPA(w)-2/EWP(j)/EEC(t)/EWA(m)-2/EWA(c)
Pz-6/Pc-4/Pr-4/Pi-4 IJP(c) AT/RM
ACCESSION NR: AR5002998 S/0081/64/000/019/B009/B009

45

B

SOURCE: Ref. zh. Khimiya, Abs. 19B28

AUTHOR: May, L. A.; Rumba, G. Ya.

TITLE: The nature of the silicon-nitrogen bonds in the silazanes

CITED SOURCE: Izv. AN LatvSSR. Ser. khim. no. 1, 1964, 23-27

TOPIC TAGS: silazane, silicoorganic compound, heterocyclic compound, cyclosilazane, silicon nitrogen bond, bond structure, electron structure, Pi electron

TRANSLATION: In order to clarify the electronic structure of the cyclosilazanes, the authors postulate two alternative systems of π -electrons: a quasiaromatic system ($p\pi - d\pi$ - delocalization) and a system of localized tricentric bonds. The electronic structure of the silazanes agrees better with the latter hypothesis, which is also favored by thermodynamic considerations. Authors' abstract.

ENCL:00
SUB CODE: GC, OC

Card 1/1 60

REF ID: A65121
SME-MA-XC713A 1942

R8018-7044

REF ID: A65121 JCDF

Test of grinding discs---Pruefung Von Schleifscheiben XX---by Dipl -ing
Josef Rumbach Aachen Technische Hochschule June 1942 Germ Unclass 15P Incl Illus
Tables Diagrams Graphs

Doctor S thesis reviews and analyzes various methods for testing grinding discs
pattern or these procedures is shown in diagrams. A series of tests was conducted
to determine the influence during grinding process of various factors, such as
hardness, grain pattern, speed of grinding disc, etc. Final evaluation points
out advantages of special methods.

SOURCE: AIR, AMS, BSI CATALOG OF GERMAN AND JAPANESE MILITARY DOCUMENTS,
March 1946, P. c64, Unclassified.

KHUCHIMIN, Yu.D. (Sverdlovsk); IVANOVA, L.V. (Sverdlovsk); RUMBAKH, V.E.
(Sverdlovsk)

Crystallization properties of Ural blast furnace slags.

Izv. AN SSSR. Met. no.6:14-23 N-D '65.

(MIRA 19:1)

1. Submitted June 29, 1964.

POLAND / Human and Animal Physiology. Internal Secre- T
tion.

Abs Jour: Ref Zhur-Biol., No 5, 1958, 22395.

Author : Rumbiesa, R.

Inst : Not given.

Title : Growth Hormone and Experimental Diabetes.

Orig Pub: Polski tygod. Lekar, 1957, 12, No 27, 1052-1055.

Abstract: No abstract.

Card 1/1

Allergology

YUGOSLAVIA

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R001446020007-7"
NIHETIC Miro Clinic for Pediatric Diseases, Children's
Hospital (Klinik za djecje bolesti, Djeca bolnica),
Medical Station (Zdravstvena stanica), Split

"Test of the Basophil Degranulation in Penicillin Sensitivity"

Zagreb, Lijecnicki Vjesnik, Vol 88, No 6, June 1966; pp 619-625

Abstract:[English summary modified] Use of Shelley's basophil degranulation test with slight technical modifications, in 30 patients for penicillin allergy; of 32 specimens of sera taken, 17 were positive, 15 negative; 6 of these were false negatives. 1 table, diagram, 1 photomicrograph; 2 Yugoslav, 12 Western references. Manuscript received 1 Feb 66.

1/1

BORISOV, L.B.; RUMEL', N.B.; YERSHOV, F.I.; MEN'SHIKH, L.K.; ZHDANOV, V.M.;
SOKOLOV, M.I.; BUKRINSKAYA, A.G.; BURDUCHEA, O.

Brief news. Vop. virus. 10 no. 6:727-733 N-D '65
(MIRA 19:1)

1. Leningradskiy sanitarno-gigiyenicheskiy meditsinskiy institut
(for Borisov, Rumel'). Submitted December 29, 1964. 2. Institut
virusologii imeni D.I. Ivanovskogo AMN SSSR, Moskva (for Yershov,
Men'shikh, Zhdanov, Sokolov). Submitted February 2, 1965. 3. In-
stitut virusologii imeni D.I. Ivanovskogo AMN SSSR, Moskva (for
Bukrinskaya, Burduchea). Submitted February 8, 1965.

GUREVICH, A.O.; KUZNETSOVA, Ye.Ye. kandidat meditsinskikh nauk; RUMELIS,

I.L.; YURUSHA, A.K.

Effects of phthivazid therapy under ambulatory conditions. Probl.
tub. no.6:21-26 N-D '55.

(MLRA 9:2)

1. Iz Respublikanskogo protivotuberkuleznogo dispansera v Rige
(glavnnyy vrach Ye. Ye. Kuznetsova)

(TUBERCULOSIS, ther.

isoniazid, under ambulatory conditions)

(NICOTINIC ACID ESOMERS, ther. use

isoniazid, in tuberc., under ambulatory conditions)

RUMEN N.

The physiognostic analyses of the fertilizing effect of brown coal. I. The effect of brown coal from the Zenica Mine on the growth of *Sinapis alba* in aqueous culture solutions. V. B. Vouk and Z. Klas (Yugoslav. Acad., Zagreb). *Radovi Jugoslav. Akad. Znanosti i Umjetnosti* 294, 9-21 (1953).

Results of pot expts. are reported on the growth of *S. alba* in normal Crone nutrient solns. contg. 0.03 to 1.0% of powd. brown coal. The roots were elongated in parallel with increasing coal addns. The optimum elongation of the stem was with 0.75% coal. The dry wt. increased uniformly both in the roots and in the stems with increasing coal addns. II. Nitrogen as a component of the fertilizing effect of brown coal. *Ibid.* 23-50. The growth of *S. alba* and *Ricinus communis* in various Crone nutrient solns. contg. decreasing amtss. of KNO_3 and increasing amtss. of powd. brown coal, has been followed. All cultures grown in media contg. no KNO_3 were stunted and deficient in dry matter. This indicates that the plants were not able to obtain their N requirements directly from the coal added.

It is postulated that the coal functions as a hormone promoting the uptake and exchange of ions in the nutritive process. III. The effect of aqueous extracts and ash of brown coal on the growth of *Sinapis alba*. V. B. Vouk, Z. Klas, and N. Rumen. *Ibid.* 51-61. Pot expts. with *S. alba* show that the ash of Zenica brown coal, added to a normal Crone nutrient soln. in the amt. of 0.7%, had no influence on the growth of the plant. A fertilizing effect was observed, however, when an aq. ext. of the coal was added to the culture soln. A slight effect was also observed when the ash obtained from the aq. ext. was added to the culture soln. IV. Comparative investigations on the effect of Zenica coal and of microelements on the growth of *Sinapis alba* in nutritive solutions. *Ibid.* 63-72. The growth of *S. alba* was studied in the following nutrient solns.: (I) a normal Crone soln.; (II) a normal Crone soln. contg. 14.093 g. powd. Zenica brown coal (III); a normal Crone soln. contg. 1.75 cc. of the Hoagland soln.; (IV) a normal Crone soln. contg. 1.75 cc. of the Hoagland soln. plus 14.093 g. powd. brown coal; and (V) a normal Shive soln. contg. 1.75 cc. of the Hoagland soln. With IV the dry matter content of the plant increased by 15% and the root elongated by 160%. The net fertilizing effect of III and I

was far behind that of IV. With II the dry matter content increased by 240%. The fertilizing effect of V was poor.

N. Pavacic

RUMENOV, Angel, inzh.

A new method in connecting steel casings. Khidtotekh i melior 8
no.7:219-220 '63.

RUMENOV, I.

Case of urgency total gastrectomy. Khirurgiia, Sofia 10 no.11:1037-
1038 1957.

1.(Iz Gradskii onkologichen dispansor - Sofiia).
(GASTRECTOMY, in var. dis.
cancer, emergency case (Bul))

RUMENOV, Iv.

Lasting functional and esthetic results after bone replacement of
the metacarpal bone excised in osteochondroma. Khirurgiia, Sofia
14 no.2/3:305-306 '61.

1. Khirurgichno otделение na II gradska obedinena bolnitsa, Sofia.
(METACARPUS neopl) (OSTEOMA surg)

RUMENOV, Iv.

Chronic arteromesenterial compression on the duodenum. Khirurgiia,
Sofia 14 no.9:841-845 '61.

1. Iz Khirurgichnoto otdelenie na II gradska obedinenata bolnitsa,
Sofia.

(INTESTINAL OBSTRUCTION etiol)
(MESENTERIC VESSELS diseases)
(DUODENUM diseases)

RUMENOV, Iv.

Prevention of and therapy of intestinal adhesions causing disorders of intestinal patency (Literature survey). Khirurgia (Sofia), 16 no.12:1115-1120 '63.

RUMENOV, Iv.; FICHEV, N.

Autonomic block in combination with local infiltration anesthesia.
Khirurgiia, Sofia 11 no.5-6:455-456 1958.

1. Iz Gradskaia onkologichen Dispanser-Sofiiia.
(AUTONOMIC DRUGS, ther. use,
ganglion blocking agents in local anesth. (Bul))
(ANESTHESIA, LOCAL,
adjuvants, ganglion blocking agents (Bul))

RUMENOV, Iv.

Operative therapy of pancreatic cysts. Khirurgiia, Sofia 11 no.5-6:
543-544 1958.

1. Iz Gradskii onkologichen dispanser--Sofiiia.
(PANCREAS, cysts,
surg. (Bul))

RUMENOV, I.; POPOV, P.

On hematological reactions of the organism during surgical interventions.
Khirurgiia, Sofia 13 no. 2-3:142-144 '60.

1. Iz khirurgichnoto otdelenie i klinichnata laboratoriia pri II gr.
obedinena bolnitsa - Sofiia.
(SURGERY OPERATIVE blood)

RUMENOV, I.

Duodenal diverticulum. Khirurgiia, Sofia 8 no.7:645-648 1955.

1. Okrughna Bolnitsa, Burgas. Upravitel: P.Stanchev.
(DUODENUM, diverticula)

RUMENOV, Iv.

Case of osteochondroma of the fifth metacarpal bone treated by extraction of two thirds of the bone and by osteoplasty with grafts from tibia. Khirurgia, Sofia 8 no.7:670 1955.

(METACARPUS, neoplasms,

osteochondroma, surg., excis. in implantation of tibial grafts)

(OSTEOMA,

metacarpus, surg., excis. & implantation of tibial grafts)

(BONE TISSUE, transplantation,

tibial grafts into metacarpus in surg. of osteochondroma)

(TRANSPLANTATION,

tibial grafts, implant into metacarpus in surg. of osteochondroma)

RUMENOV, Iv.

Case of ectopic accessory bone in the gluteal muscles. Khirurgiia,
Sofia 7 no.10:623-624 1954.

(BUTTOCKS, abnormalities,
ectopic accessory bone in gluteal region)
(ABNORMALITIES,
ectopic accessory bone in gluteal region)

RUMENOV, I.

Unusual complication in suppurative pulmonary echinococcosis. Khirurgia,
Sofia 6 no.7:433-436 1953. (CIML 25:5)

1. Head of Surgical Division of Burgas District Hospital (Head Physician --- P. Stanchev).

УДК 539.2. Известия Сибирского физико-химического института им. Г.И.Бардина. Том 19, № 1, 1965, 157-158

Радиоактивные излучения. tellurium, линии, beta-��滅

ABSTRACT. The internal conversion spectrum of Te^{132} was observed with a $\sqrt{2}$ double focusing magnetic spectrometer. The work was undertaken because of contradictory data in literature concerning the separation of the two fragments of transition lines. The spectrum of the β -radiation of Te^{132} was measured with a Ge(Li) detector. The spectrum was analyzed by the method of successive approximations. Eighty-five lines were identified. The probability of the separated lines is calculated. Eighty-five were γ -transitions. Internal conversion coefficients of them are assigned. The two γ -transitions. Internal conversion coefficients of them are assigned. It is shown that in Te^{132} the two γ -rays are emitted from the same excited state of the nucleus. The energy of the

Card 1/2

L 32892-65

ACCESSION NR AP5004539

The authors express their gratitude to V.A.Bazhenov for his interest in our work and for participating in discussions of the results of the experiments.

ASSOCIATION: none

SUBMITTED: 00/-/--Jan65

ENCL: 00

SUB CODE: NP

RECORDED BY:

TYPE:

Card 2/2

RUMENOV, Iv.

Surgical geriatrics. Khirurgiia, Sofia 11 no.7:645-652 1958.

1. Gradski Onkologichen Dispanser; Sofiia Gl. lekar; P. Lukanov.
(AGED, surgery,
(Bul))

RUMENOV, I.

Case of retroperitoneal teratoma. Khirurgia, Sofia 11 no.9:867-869
1958.

1. Iz Gradskaia onkologichen dispanser--Sofia.
(TERATOMA, case reports,
retroperitoneal (Bul))
(RETROPERITONEAL SPACE, neopl.
teratoma (Bul))

RUMENOV, I.

A case of pancreatic cyst. Khirurgiia, Sofia 12 no.7:651-653 '59.

1. Iz Gradskii onkologichen dispanser - Sofiia.
(PANCREAS dis.)
(CYSTS case reports)

RUMENOV, Iv.

One hundred cases of breast cancer. Khirurgiia, Sofia 9 no.
7-8:611-619 1956.

1. Gradski onkologichen dispanser-sofiiia. Gl. lekar; P. Lukanov.
(BREAST NEOPLASMS, case reports,
statist. analysis (Bull))

RUMENOV, Iv.

Studies on echinococcosis in the Burgas region according to data
of the Burgas regional hospital. Suvrem. med., Sofia 8 no.1:10-21
1957.

1. Iz Okrughnata bolnitsa--Burgas (Gl. Lekar: P. Stanchev).
(ECHINOCOCCOSIS, epidemiology,
in Bulgaria (Bul))

RUMENOV, Iv.

Case of retrorectal neurilemmoma. Khirurgiia, Sofia 9 no.9:
838-840 1956.

1. (Iz Gradskiiia onkologicheni dispanser-Sofiia).
(NEURILEMOMA, case reports,
retrorectal (Bul))
(RECTUM, neoplasms,
neurilemmoma, retrorectal (Bul))

RUMENOV, Iv., zavezhdashch khirurgichnoto otdelenie.
Immediate and remote results in peptic ulcer surgery. Khirurgiia,
Sofia 7 no.8:481-492 1954.

1. Okruzhna bolница Gr.Burgas. Glaven lekar: P.Stanchev.
(PEPTIC ULCER, surgery,
results)

RUMENOV, Iv.

Five year survey of cancerous patients treated at the surgical
ward of the regional hospital in Burgas. Khirurgiia, Sofia 8
no.5:417-423 '55.

1. Okruzhna bolnitsa--Burgas Gl.lekar: Zh. Siakolov. Zav.khirur-
gichnoto otdelenie: Iv. Rumenov
(NEOPLASMS, statistics,
hosp. report)

RUMENOV, Iv., zav. khirurgichno otdelenie

Penetrating thoraco-abdominal gunshot wounds. Khirurgiia, Sofia
7 no.5:304-307 1954.

1. Okruzhna bolnitsa, Burgas. Glaven lekar: Zh. Siakolov.
(THORAX, wounds and injuries,
gunshot thoraco-abdominal)
(ABDOMEN, wounds and injuries,
gunshot thoraco-abdominal)
(WOUNDS AND INJURIES,
gunshot thoraco-abdominal)

RUMENOV, Iv. i. POPOV, P.

On postoperative hematological reactions of the organism.
Khirurgija 15 no.9/10:903-904 '62.

1. Iz khirurgichnoto otdelenie i klinichnata laboratoriia pri
II gr. obedinena bolnitsa - Sofiia.
(SURGERY OPERATIVE) (BLOOD CELL COUNT)

POPOV, N.; RUMENOVA, A.; BOYADZHIYEVA, M. (Sofiya)

Antistreptolysin titer in certain childhood diseases. Pediatriia
37 no.4:52-55 Ap '59.

(MIRA 12:6)

1. Iz 2-y gorodskoy detskoy bol'nitsy (glavnnyy vrach P.Belopitov)
i Gorodskoy sanitarno-epidemiologicheskoy stantsii (glavnnyy vrach
G.Petrov).

(PEDIATRIC DISEASES, blood in
antistreptolysin O titer (Rus))

(ANTISTREPTOLYSIN, in blood
O, in pediatric dis. (Rus))

YUHNOVA, Yord

BULGARIA

[Academic Degrees]

[Affiliation]

[Source] Sofia, Sreden Meditsinski Rabotnik, № 5, 1962,
pp 19-26

[Data] "The Significance of Cows Milk and Milk Products in
the Feeding of Children."

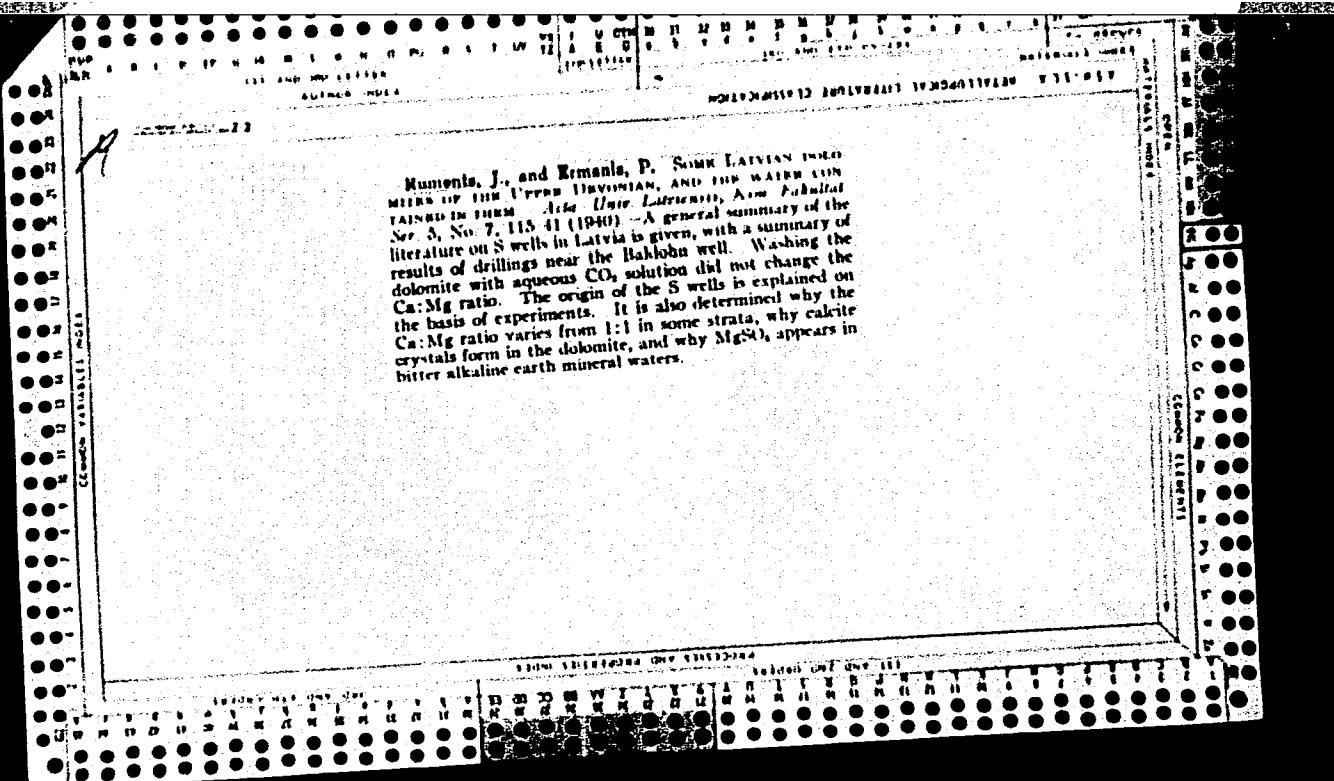
Rumenska, A.

dyni ✓ Influence of ferricyanide on *Datura stramonium*, L. Yield of leaves, contents of alkaloids and some other compounds. I. Reifer, A. Rumenska and J. Kaczkowski (*Acta biolica polon.*, 1956, 2, 203-224). Treatment of seeds of *D. stramonium* with aq. $K_3Fe(CN)_6$ increased the growth of the plants and the concn. of alkaloid, total N and citric acid and also the dry matter content of the leaves. The alkaloid content increased with the concn. of $K_3Fe(CN)_6$ applied, 0.1% giving optimal values. A. G. POLLARD.

RUMENOVIC, Josip, inz.

Tunneling in full profile in the soft rocks for the Split Hydroelectric Power Plant. Gradevinar 13 no.11:337-342 N '61.

1. "Konstruktor", Split.



RUMENOV, Iv.; BEROV, B.; ATANASOV, Al.

Possible combined surgical interventions in the treatment
of advanced cancer. *Khirurgija* (Sofia) 18 no.5:562-565
'65.

1. Okruzhna bolnitsa "D-r. Racho Angelov", Sofia (gl. lekar
T. Mikhailov; Institut za burze meditsinska pomosht
"N.I. Pirogov", Sofia (gl. lekar Kh. Zdraykov).

RUMER, A.O.

Geometric derivation of the formula of the auxiliary coefficient
used in reciprocal orientation of the stereopair. Trudy MIIZ
no.10:153-155 '60. (MIRA 16:12)

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001446020007-7

RUMER, Andrey Osipovich
DORF, Petr Yakovlevich; RUMER, Andrey Osipovich; GUS'KOV, G.G., red.;
GARNIK, V.P., tel...red.

[Measurements on terrain] Izmereniia na mestnosti. Izd.2-oe, perer.
i dop. Moskva, Izd-vo Akad.pedagog.nauk RSFSR, 1957. 430 p.
(MIRA 11:1)

(Topographical surveying)

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001446020007-7"

VERKHOVSKAYA, V.A.; DEYNEKO, V.F., prof.; ZYKOV, K.A.; KISLITSYN,
A.S.; MURASHEV, S.A.; OBIRALOV, A.I.; PETRUSHINA, R.S.;
POPOV, A.F.; RUHER, A.O.; SKOSELEV, A.T.; KHIZHINSKIY, D.G.;
SHURYGINA, A.I., red. izd-va; ROMANOVA, V.V., tekhn. red.

[Laboratory work in aerophotogeodesy for land utilization
faculties of higher agricultural schools] Laboratorye raboty
po aerofotogeodezii; dla zemleustroitel'nykh fakul'tetov
sel'skokhoziaistvennykh vuzov. Pod obshchei red. V.F.Deineko.
Moskva, Izd-vo geodez.lit-ry, 1962. 109 p. (MIRA 15:10)

1. Moscow. Institut inzhenerov zemleustroystva. 2. Kafedra
aerofotogeodezii Moskovskogo instituta inzhenerov zemleustroy-
stva (for all except Shurygina, Romanova).
(Aerial photogrammetry)

ASTANSKIY, L.Yu., kand. tekhn. nauk; REKITAR, Ya.A., kand. ekonom. nauk;
RUMER, B.Z., inzh.

Improving the structure and increasing the effectiveness of capital
investments. TSement 30 no.3:15-16 My-Je '64.
(MIRA 17:11)

RUMER, IA.

**TT. 383 (The problem of a submerged jet) Zadacha o zatoplennoi strome.
PRIKLADNAIA MATEMATIKA I MEKHANIKA, 16(2): 255-256, 1952.

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001446020007-7

IVANOV, Yu.F.; PUMER, I.A.; BUKACH, A.Ya.

Internal conversion electrons in Te¹³². Izv. AN SSSR Ser. fiz. 29
no.1:157-158 Ja '65. (MIRA 18:2)

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001446020007-7"

ACC NR: AP014700

SOURCE CODE: UR/0367/65/002/006/0971/0977
89
B

AUTHOR: Ivanov, Yu. F.; Rumer, I. A.

ORG: Institute of Biophysics, Ministry of Hygiene, SSSR (Institut biofiziki minis-
terstva zdravookhraneniya SSSR)TITLE: Coefficients of internal conversion of certain nuclear transitions in Xe^{132}

SOURCE: Yadernaya fizika, v. 2, no. 6, 1965, 974-977

*ISOTOPE, SPECTROMETER,*TOPIC TAGS: Xenon, conversion electron spectrum, photoelectron, Beta spectroscopy,
electron transition, molecular interaction, Gamma transition/ BPP-3 magnetic spectro-
meter

76 *10*

ABSTRACT: The authors have determined the coefficients of internal conversion for certain transitions in Xe^{132} with the aid of a procedure that yields directly the absolute value of the coefficient, by measuring with a magnetic spectrometer the number of conversion electrons and the number of photoelectrons knocked out from a calibrated target, using the same radioactive source for both. The spectra of the conversion electrons and photoelectrons were investigated with the aid of a double-focusing β spectrometer described by the authors earlier (Magnetic spectrometer BPP-3 in: Tekhnika izmereniy radioaktivnykh preparatov [Techniques of measurement of radioactive compounds], Gosatomizdat, 1962). The nuclear transitions investigated had energies 523, 630, 667.8, 772.9, and 954.5 kev. The photoelectron spectrum was investigated by using a platinum target of thickness 6 and 11 mg/cm², calibrated against

Card 1/2

L 34477-66

ACC NR: AR014700

γ rays from Au¹⁹⁸ and Cs¹³⁷. The relative intensities of these γ transitions in Xe¹³⁸ were determined. The multipolarities of the 523, 630, 667.8, and 772.9 kev are identified as E2 and that of the 154.5 transitions is identified as E1. This agrees with the level scheme proposed by Hamilton and Boyd (Bull. Amer. Phys. Soc. v. 9, 145, 1964). The levels corresponding to the different transitions are identified. The parities of the levels 1963.7 and 2070.9 are found to be positive and that of the 2395.2 level negative. Orig. art. has: 3 figures and 3 tables.

SUB CODE: 20/ SUBM DATE: 30Mar65/ ORIG REF: 003/ OTH REF: 007

Card

2/2 90

Rumer, I. A.

37

SOV/6333

PHASE I BOOK EXPLOITATION

Bochkarev, V. V., ed.

Tekhnika izmereniye radioaktivnykh preparatov; sbornik statey (Techniques for the Measurement of Radioactive Preparations; Collection of Articles) Moscow, Gosatomizdat, 1962. 4600 copies printed.

Eds.: A. M. Smirnova and M. A. Smirnov; Tech. Ed.: S. M. Popova.

PURPOSE: This book is intended for specialists in nuclear instrumentation.

COVERAGE: The book is a collection of articles on recent developments in 1) measurement of the activity and 2) analysis of the composition of emissions of radioactive preparations. The methodology and apparatus used in these studies are described in detail. References are given at the end of each article.

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Techniques for the Measurement (Cont.)

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- Ivanov, Yu. F., K. N. Shlyagin, and P. N. Feoktistov. Magnetic β - and γ -Spectrometer 156
- Ivanov, Yu. F., I. A. Rumer, and K. N. Shlyagin. Magnetic Spectrometer BPP-3 168
- Bazhenov, B. A., Yu. M. Golubev, K. N. Shlyagin, P. N. Feoktistov, and G. V. Yakovlev. Scintillation γ -Spectrometer With a Multichannel Analyzer and a Unit for the Automatic Plotting of Spectra 182
- Bazhenov, V. A., Yu. M. Golubev, and K. N. Shlyagin. Scintillation Spectrometer Counter With Allowance for Dead-Time Effect 202

Card 4X5 1/2

LANDAU, L.D.; RUMER, J.

Earth hour and rocket hour. Elet tud 17 no.45:1427-1428 11 N
'62.

RUMER, J.

FBI INTERVIEW WITH J. RUMER, TRAPPIST, NEW YORK	
1.	"RECENTLY, IN THE PAST MONTH OR SO, YOU HAVE BEEN INVOLVED IN SOME ACTIVITY."
2.	"NOT TO SAY THAT PREVIOUSLY, IN THE PAST MONTH OR SO, YOU HAVE BEEN INVOLVED IN SOME ACTIVITY."
3.	"THE AUTHORITIES ARE ASKING YOU TO TELL THEM *THE PROPOSED POLITICAL PARTY WHICH YOU ARE INVOLVED WITH*."
4.	"THE PROPOSED POLITICAL PARTY WHICH YOU ARE INVOLVED WITH IS CALLED THE 'LIBERTY PARTY'."
5.	"YOU WERE INVOLVED WITH THE LIBERTY PARTY, BY YOUR OWN STATEMENT, FOR THE PAST MONTH OR SO."
6.	"DO YOU WANT TO TELL ME WHAT THE LIBERTY PARTY IS ALL ABOUT?"
7.	"THE LIBERTY PARTY IS A PART OF THE 'GREEN' POLITICAL PARTY WHICH IS INVOLVED IN ACTIVITIES OF PRESERVING THE ENVIRONMENT, PRESERVING THE FORESTS, ETC. AND, I DON'T KNOW, I DON'T KNOW, I DON'T KNOW."
8.	"DO YOU WANT TO TELL ME WHAT THE GREEN POLITICAL PARTY IS ALL ABOUT?"
9.	"I DON'T KNOW, I DON'T KNOW, I DON'T KNOW."
10.	"DO YOU WANT TO TELL ME WHAT THE GREEN POLITICAL PARTY IS ALL ABOUT?"
11.	"I DON'T KNOW, I DON'T KNOW, I DON'T KNOW."

11

SADOVNIKOV, V.; RUMER, M.

Public inspection continues. NTO 5 no.5:14-16 My '63.
(MIRA 16:7)

1. Predsedatel' zavodskoy smotrovoy komissii Moskovskogo zavoda malolitrazhnykh avtomobiley (for Sadovnikov).
2. Otvetstvennyy sekretar' gazety "Za sovetskuyu malolitrazhku" (for Rumer).
(Moscow—Automobile industry)

RUMER, M.

How they tamed the presses. Okhr.truda i sots.strakh. 4
no.12:26 D '61. (MIRA 14:11)
(Power presses--Safety appliances)

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CIA-RDP86-00513R001446020007-7

BOYER, M.

Cybernetics come to the workshops, Zelenograd 36 no. 818 As '61.
(MILIA 14-3)

(Cybernetics)

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CIA-RDP86-00513R001446020007-7"

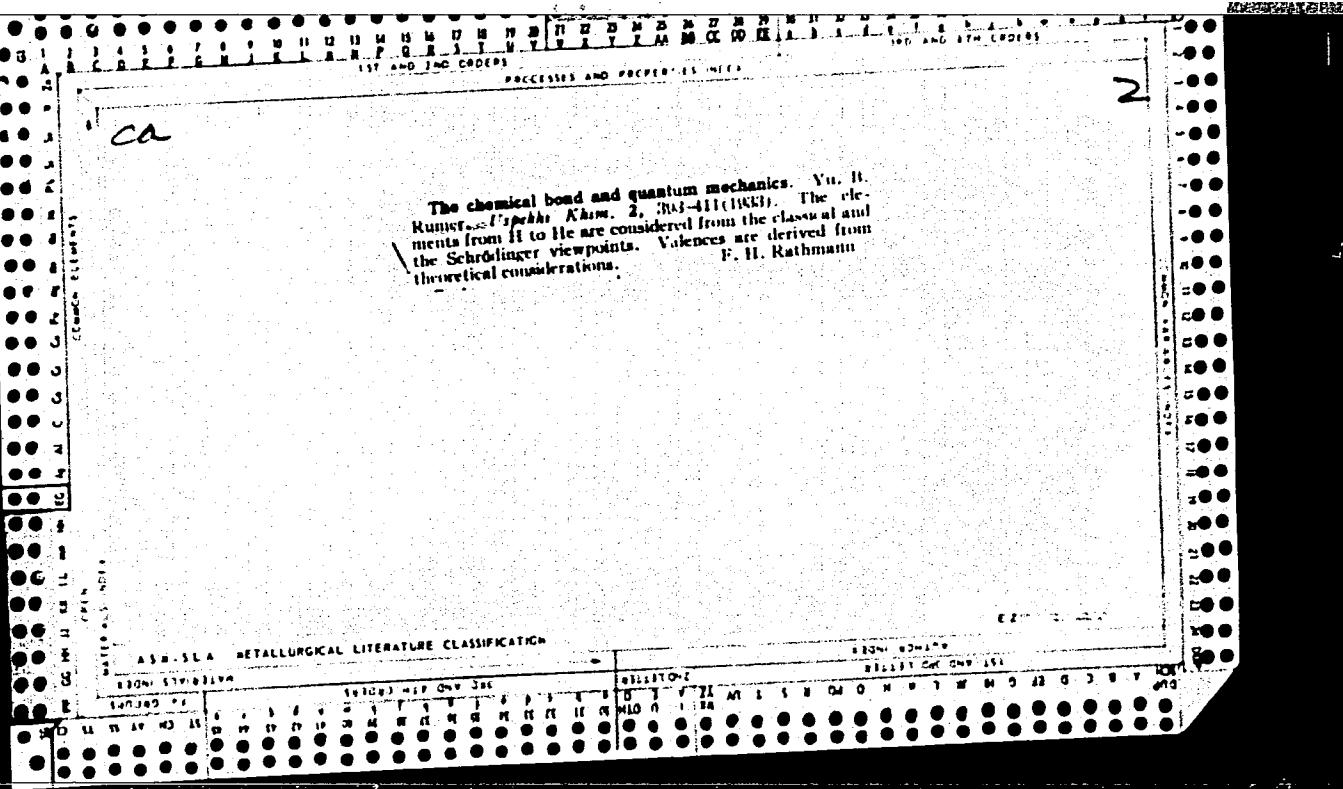
SADOVNIKOV, V.; RUMER, M.

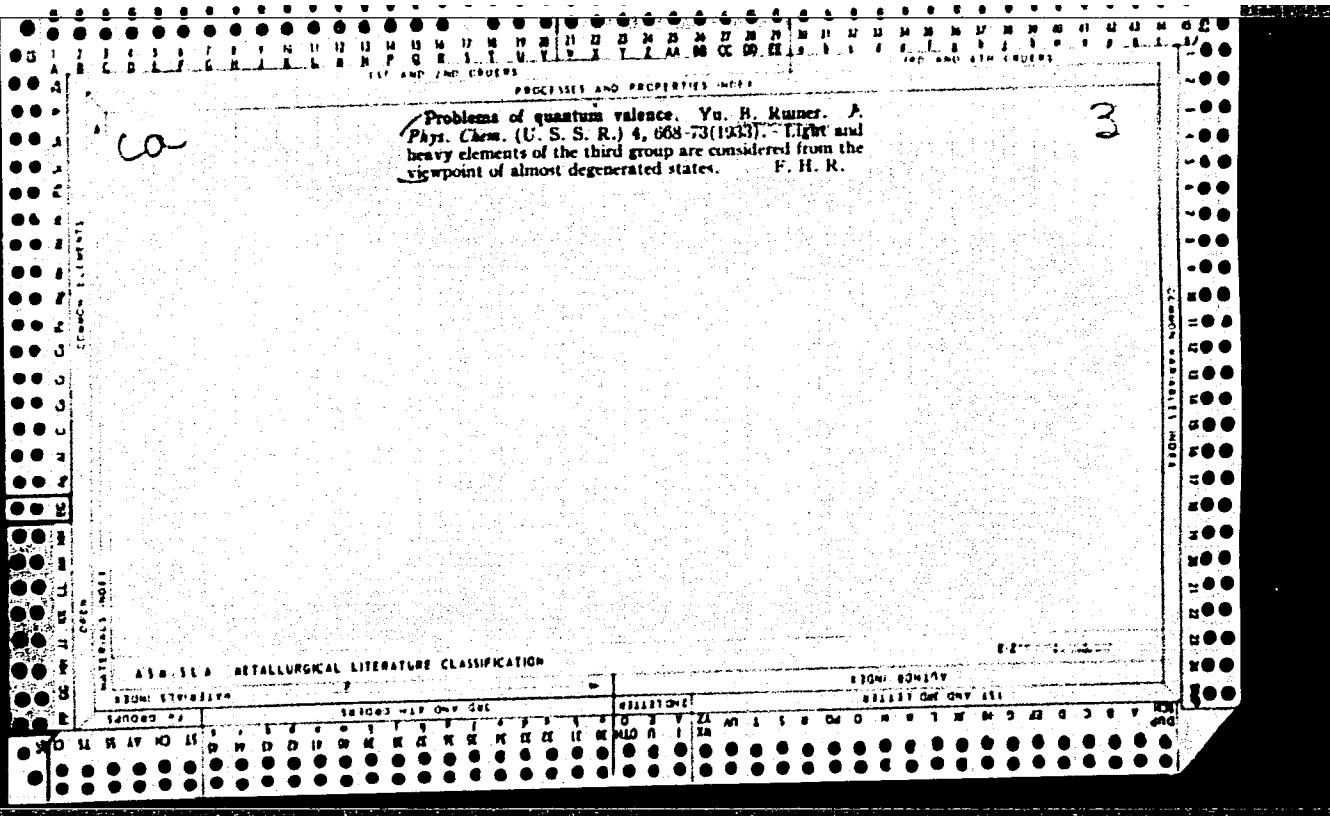
Seniors help juniors. NTO 3 no.3:40-42 Mr '61. (MIRA 14:3)

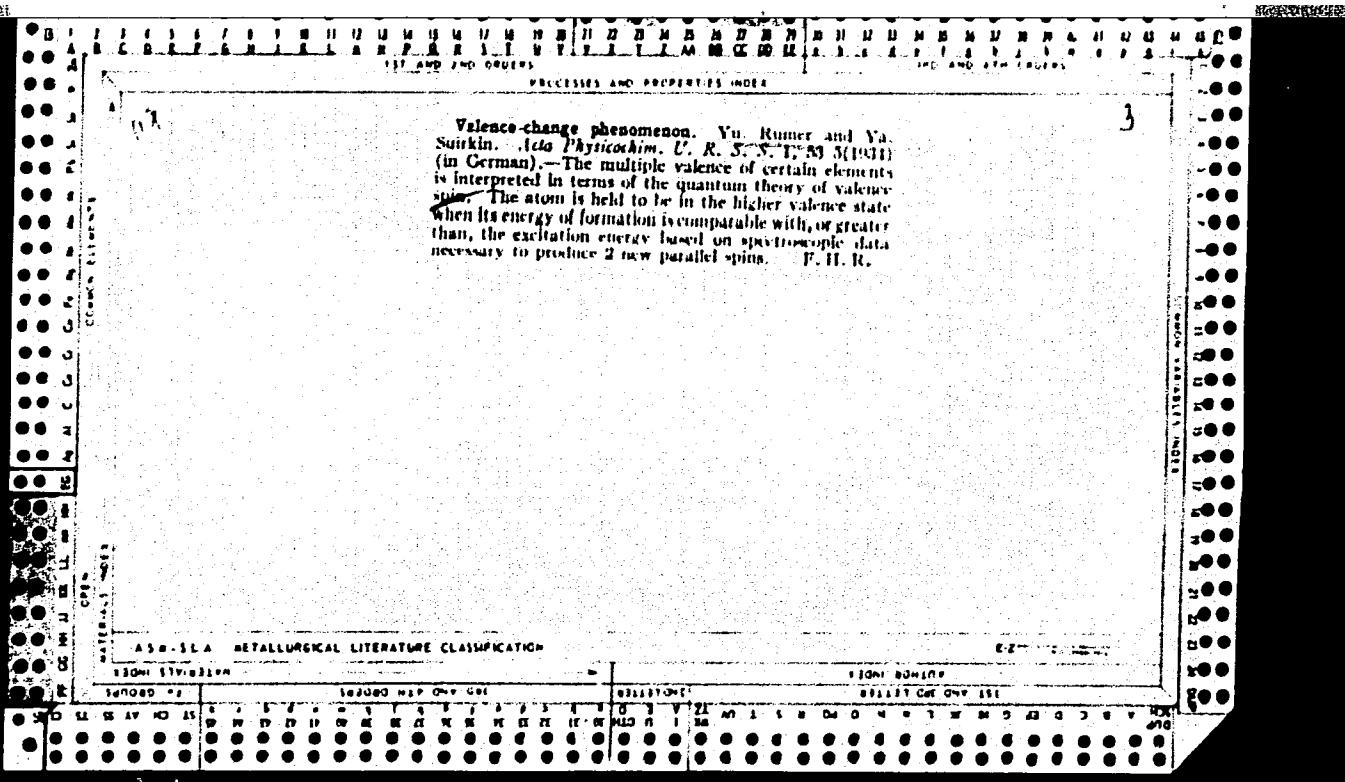
1. Zamestitel' predsedatelya soveta nauchno-tehnicheskogo obshchestva Moskovskogo zavoda malolitrazhnykh avtomobiley (for Sadovnikov). 2. Sotrudnik zavodskoy gosety "Za sovetskuyu malolitrazhku" (for Rumer).
(Balashikha—Machinery industry)

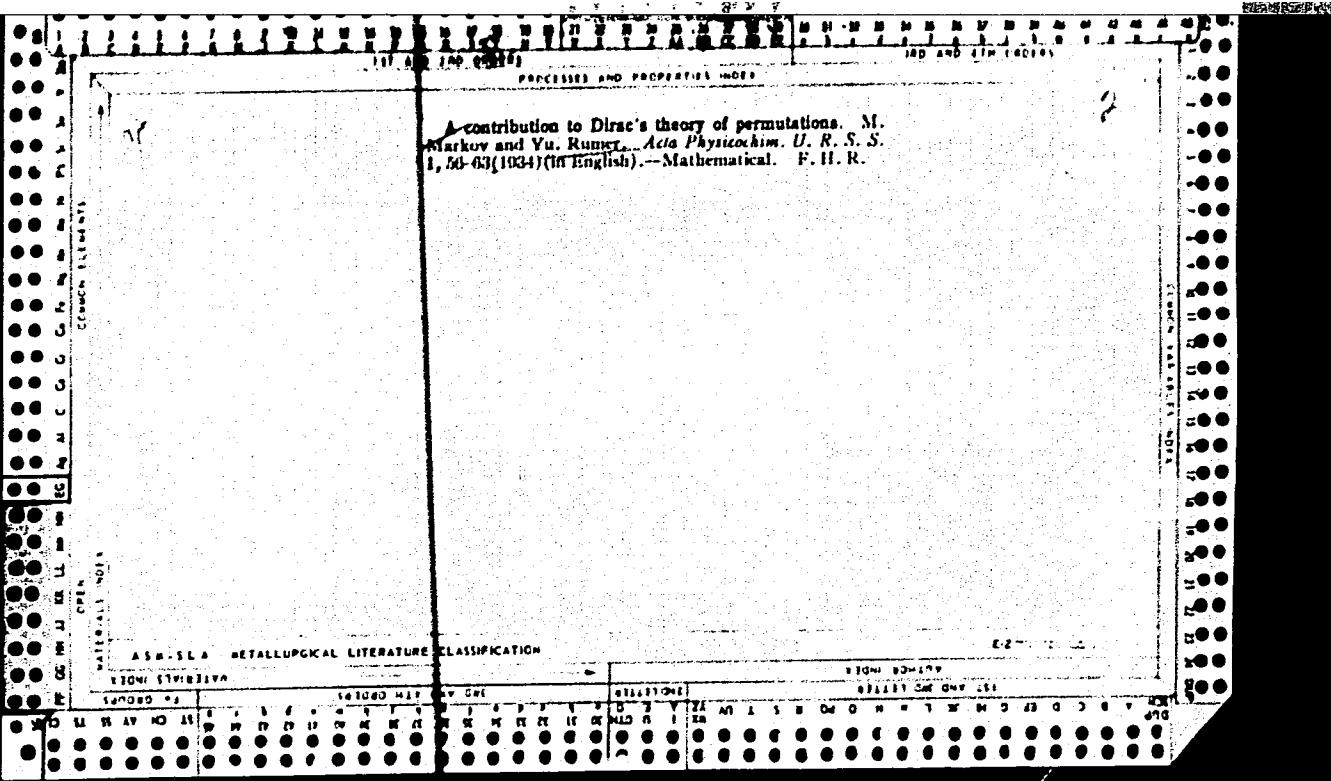
RUMER, Mikhail Zalmanovich; LANINA, L.I., red.

[Institute at a plant; Boris Burtsev becomes an engineer]
Institut na zavode; Boris Burtsev stanovitsia inzhenerom.
Moskva, Znanie, 1965. 46 p. (Novoe v zhizni, nauke, tekhnike. X Seriya: Molodezchnaia, no.18) (MIRA 18:8)









188 wave theory of the neutrino. Yu. B. Rumer.
Compt. rend. acad. sci. U. R. S. S. 4, 21-2 (in German 21-
4) (1934).—The general multiple-component wave equa-
tion is constructed for a particle with neither mass nor
charge. For the photon they become equiv. to Max-
well's equations and lead to an integral spin. For the
neutrino the wave functions have 4 components and lead
to a half integral spin. Morris Muskat

2

Molecular theory of the chemical bond. Yu. B. Rumer.
Uspolki Fiz. Nauk 14, 35 (1934).—Theoretical-mathematical. Simple and polyatomic mol., and *cis-trans* isomerism are discussed on the basis of the theories of Hund, Kertberg and Mulliken.

P. H. Rathmann

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ASH-SEA METALLURGICAL LITERATURE

CLASSIFICATION

